BRUHAT BANGALORE MAHANAGARA PALIKE
YELAHANKA ZONE

Name of work: Estimate for Improvements to Drain at Somanna Garden Main Road from 1st cross saptagiri layout to SWD in Ward No. 09 In vidyaranyapura sub Division.

								Estimate Cost Rs.	2800000.00
Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earth work excavation by manual means in hard soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 141/ Item No. 19.2 / PWD SR 2015-16**	Cum							
	RCC Drain		1	327.00	1.20	1.10	431.64		
	For Cds		4	7.00	2.00	1.20	67.20		
							498.84	115.56	**57646.00**
	Basic Rate	107.00							
	Area Weightage @8%	8.56							
	Total	**115.56**							
2	KSRB 4-1.3 : Providing and laying in position plain cement concrete of **mix 1:4:8 with OPC cement @ 180 kgs with 40mm** and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. **No. 12/ Item No. 4.3/ PWD SR 2015-16**	Cum							
	RCC drain								
	Somanna garden main Road R/S 1st cross to SWD		1	327.00	1.20	0.15	58.86		
	For Cds		4	7.00	2.00	0.15	8.40		
							67.26	5070.60	**341049.00**
	Basic Rate	4695.00							
	Area Weightage @ 8%	375.60							
	Total	**5070.60**							
3	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in **basement with cement mortar 1:6**, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 **Page No. 23 / Item No. 5.9 / PWD SR 2015-16**	Cum							
	For Culverts		2x4	7.00	0.60	0.90	30.24		
							30.24	4905.36	**148338.00**
	Basic Rate	4542.00							
	Area Weightage @ 8%	363.36							
	Total	**4905.36**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
4	KSRB 4-1.6 : Providing and laying in position plain cement concrete of **mix 1:2:4 with cement @ 240 kgs with 20mm** and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1,4.2. **No. 12/ Item No. 4.6 / PWD SR 2015-16**	Cum							
	Coping CD's		2x4	7.00	0.60	0.10	3.36		
	Vent		4	7.00	0.70	0.10	1.96		
							5.32	5490.72	**29211.00**
	Basic Rate	5084.00							
	Area Weightage @ 8%	406.72							
	Total	**5490.72**							
5	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for **vertical surface such as walls** at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 **Page No. 15 / Item No. 4.31 / PWD SR 2015-16**	Sqm							
	RCC Drain Sidewall		3	327.00		0.75	735.75		
	Cd deck slab		4	7.00	0.75		21.00		
	Drain Covering slab Bottom		1	327.00	0.60		196.20		
	Covering slab sides		1	327.00		0.15	49.05		
	Deck slab sides		4x2	7.00		0.23	12.88		
			4x2	1.80		0.23	3.31		
							1018.19	306.72	**312300.00**
	Basic Rate	284.00							
	Area Weightage @8%	22.72							
	Total	**306.72**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
6	KSRB 4.2.2 : Providing and laying in position **reinforced cement concrete of design mix M20 with OPC cement @ 320 kgs, with 20mm and down size graded granite metal**, coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplastisiser @ 3lts confirming to IS 9103-1999 reaffirmed-2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, walls (any thickness) including attached plasters, column, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1,4.6, **Page No. 13 / Item No. 4.11 / PWD SR 2015-16**	Cum							
a	RCC Drain Bottom		1	327.00	1.00	0.15	49.05		
	Side Wall		2	327.00	0.15	0.75	73.58		
	Covering Slab		1	327.00	1.00	0.10	32.70		
b	Deck slab CDs		4	6.00	1.80	0.23	9.94		
							165.26	6198.12	**1024308.00**
	Basic Rate	5739.00							
	Area Weightage @8%	459.12							
	Total	**6198.12**							
7	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **TMT Bars FE 500 Page No. 17 / Item No. 4.46.2 / PWD SR 2015-16**	Tonne							
	Drain and Cd		0.07	165.26			11.57		
							11.57	69805.80	**807532.00**
	Basic Rate	64635.00							
	Area Weightage @8%	5170.80							
	Total	**69805.80**							
8	Lead for Disposal of Debris shall be payable at carage rates by Mechanical means inlcuding loading and unloading. **From 0.00 to 11.90 Km** (PWD SR Rates P No 139)	Cum							
			Qty. Vide Item No. 1				**473.90**	106.34	**50393.00**
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 TX 11.90Km X 2.0/km= 30.46	30.46							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
		98.46							
	Area Weightage @ 8%	7.88							
	Total	**106.34**							
9	Sub Total								**2770777.00**
10	Third Party Inspection Charges @ 1%								**27708.00**
11	Add for unforseen and rounding off	L/S							**1515.00**
								Total	**2800000.00**

(Rupees Twenty Eight Lakhs Only)

Certificate:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2015-16
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

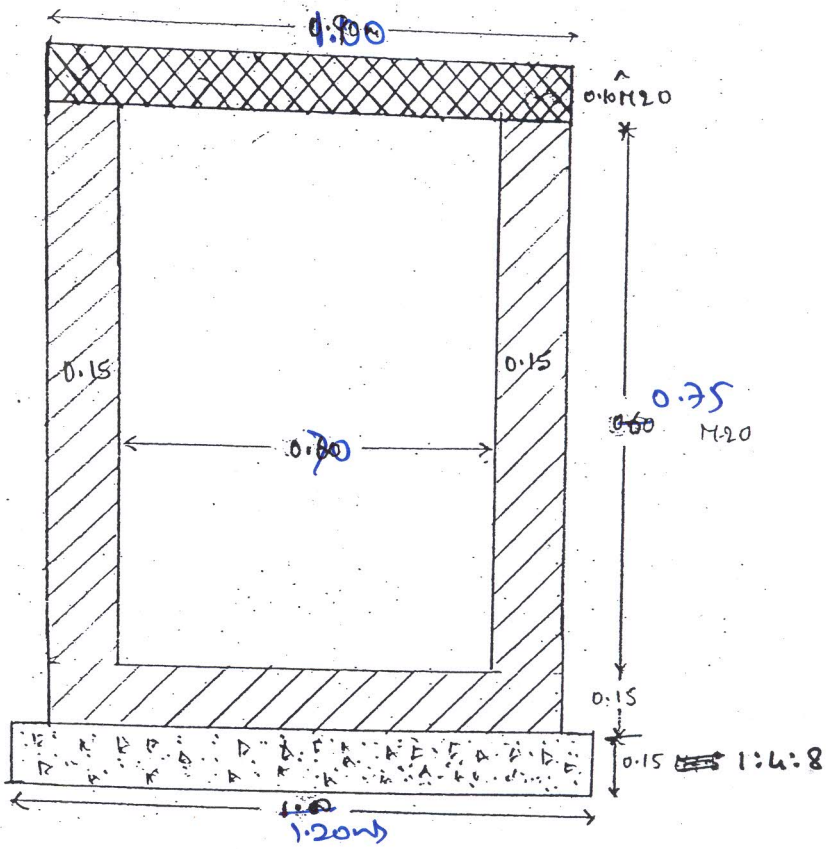
Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division
8/12/15

Administrative Approval
Accorded For 2800000.00/-
Head of A/C P-1771
CER NO :83 dt.14.12.2015

TA CE (YNK)

Technical Sanction
Accorded For 2800000/-
Head of A/C P-1771
CER NO :36/15-16 Dt:17.12.2015

Superintending Engineer, SC
Yelahanka Zone
BBMP, Bangalore



CROSS SECTION OF CC DRAIN

1-0
RM

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97